

Exam Date : 12/09/2023

Time : 03:00 PM - 05:30 PM

Subject Name : Computer Science

Subject Code : 226

**Subject Question****Question 1**

Consider two binary numbers A = 110001 and B = 001100. What is the result of (A AND B) OR (NOT A AND NOT B)?

Answer :

- (A) 000000
- (B) 110001
- (C) 001100
- (D) 111101

**Question Id : 1**

Option Id

- 1001
- 1002
- 1003
- 1004

**Right Answer :**

000000

**Right Option Id : 1001****Question 2**

Which of the following is a self-complementing binary code, where adjacent codes differ in only one bit position?

Answer :

- (A) BCD
- (B) ASCII
- (C) Gray Code
- (D) EBCDIC

**Question Id : 55**

Option Id

- 55001
- 55002
- 55003
- 55004

**Right Answer :**

Gray Code

**Right Option Id : 55003****Question 3**

How many bits are used to represent a single decimal digit in Gray Code?

Answer :

- (A) 4 bits
- (B) 8 bits
- (C) 16 bits
- (D) 10 bits

**Question Id : 54**

Option Id

- 54001
- 54002
- 54003
- 54004

**Right Answer :**

4 bits

**Right Option Id : 54001****Question 4**

What is the minimized expression for the Boolean function  $F(A, B, C, D) = \Sigma(0, 1, 2, 4, 5, 6, 10, 12, 13)$  using the K-map method?

Answer :

- (A)  $A'B'C'D' + A'B'C'D + A'B'CD + A'BC'D + A'B'C'D' + A'BCD$
- (B)  $A'B'C'D' + A'B'C'D + A'B'CD + A'BC'D + A'B'C'D' + A'BC'D$
- (C)  $A'B'C'D' + A'B'C'D + A'B'CD + A'BC'D + A'B'C'D' + A'BC'D'$
- (D)  $A'B'C'D' + A'B'C'D + A'B'CD + A'BC'D + A'B'C'D' + A'BCD$

**Question Id : 53**

Option Id

- 53001
- 53002
- 53003
- 53004

**Right Answer :** $A'B'C'D' + A'B'C'D + A'B'CD + A'BC'D + A'B'C'D' + A'BC'D$ **Right Option Id : 53002**

**Question 5**

A binary-to-gray code converter is an example of:

Answer :

- (A) Encoder
- (B) Decoder
- (C) Comparator
- (D) Multiplexer

**Right Answer :**

Encoder

**Question Id : 52**

- 52001
- 52002
- 52003
- 52004

**Right Option Id : 52001****Question 6**

Which statement accurately describes a Programmable Logic Device (PLD)?

Answer :

- (A) PLDs can only be programmed once and cannot be reconfigured.
- (B) PLDs are used exclusively for memory storage in digital circuits.
- (C) PLDs allow for both input and output programming to implement custom logic functions.
- (D) PLDs consist of only AND gates and do not include OR gates.

**Right Answer :**

PLDs allow for both input and output programming to implement custom logic functions.

**Question Id : 51**

- 51001
- 51002
- 51003
- 51004

**Right Option Id : 51003****Question 7**

Which of the following applications is a typical use of microcontrollers in the field of home automation?

Answer :

- (A) Satellite communication
- (B) Air traffic control
- (C) Temperature and lighting control
- (D) Space exploration

**Right Answer :**

Temperature and lighting control

**Question Id : 50**

- 50001
- 50002
- 50003
- 50004

**Right Option Id : 50003****Question 8**

What does the term "harvard architecture" refer to in the context of microcontrollers?

Answer :

- (A) A type of microcontroller with high processing speed
- (B) A microcontroller architecture that uses a separate memory space for instructions and data
- (C) A microcontroller with advanced addressing modes
- (D) A microcontroller with a large number of I/O ports

**Right Answer :**

A microcontroller architecture that uses a separate memory space for instructions and data

**Question Id : 49**

- 49001
- 49002
- 49003
- 49004

**Right Option Id : 49002****Question 9****Question Id : 48**

What is the primary purpose of using Don't Care conditions in Karnaugh Map simplification?

Answer :

- (A) To mark cells that should not be included in the simplification process
- (B) To indicate cells that have an undefined logic value
- (C) To identify cells that are already in their simplest form
- (D) To mark cells with special logic functions

Option Id

- 48001
- 48002
- 48003
- 48004

**Right Answer :**

To mark cells that should not be included in the simplification process

**Right Option Id : 48001**

#### Question 10

De Morgan's First Theorem states that the complement of a \_\_\_\_\_ of variables is equal to the \_\_\_\_\_ of their individual complements

Answer :

- (A) AND, OR
- (B) OR, AND
- (C) NAND, NOR
- (D) NOR, NAND

#### Question Id : 47

- 47001
- 47002
- 47003
- 47004

**Right Answer :**

OR, AND

**Right Option Id : 47002**

#### Question 11

The hexadecimal number F4 is equivalent to which binary number?

Answer :

- (A) 11111001
- (B) 11110100
- (C) 11111100
- (D) 11111010

#### Question Id : 46

- 46001
- 46002
- 46003
- 46004

**Right Answer :**

11110100

**Right Option Id : 46002**

#### Question 12

When converting a binary number to Gray Code, what is the result of XORing the most significant bit (MSB) of the binary number with the next bit?

Answer :

- (A) The MSB of the Gray Code
- (B) The LSB of the Gray Code
- (C) The XOR of all the bits in the binary number
- (D) The XOR of all the bits in the Gray Code

#### Question Id : 45

- 45001
- 45002
- 45003
- 45004

**Right Answer :**

The LSB of the Gray Code

**Right Option Id : 45002**

#### Question 13

In an ideal microcomputer, what is the purpose of the clock or oscillator circuit?

Answer :

- (A) Providing power to the microcomputer
- (B) Displaying time and date information

#### Question Id : 44

- 44001
- 44002

(C) Generating timing signals to synchronize operations  
 (D) Cooling the microcomputer components

44003  
 44004

**Right Answer :**

Generating timing signals to synchronize operations

**Right Option Id : 44003**

**Question 14**

What is the worst-case time complexity of Binary Search for an array of size "n"?

Answer :

(A)  $O(\log n)$   
 (B)  $O(n)$   
 (C)  $O(n \log n)$   
 (D)  $O(1)$

**Question Id : 43**

Option Id  
 43001  
 43002  
 43003  
 43004

**Right Answer :**

$O(\log n)$

**Right Option Id : 43001**

**Question 15**

The minimum number of edges in a spanning tree of a connected graph with "n" vertices is:

Answer :

(A)  $n$   
 (B)  $n - 1$   
 (C)  $n + 1$   
 (D)  $n(n-1)/2$

**Question Id : 42**

Option Id  
 42001  
 42002  
 42003  
 42004

**Right Answer :**

$n - 1$

**Right Option Id : 42002**

**Question 16**

Which property of dynamic programming is particularly useful for solving Optimal Binary Search Tree problems?

Answer :

(A) Optimal substructure  
 (B) Greedy choice property  
 (C) Divide and Conquer  
 (D) Linear programming

**Question Id : 41**

Option Id  
 41001  
 41002  
 41003  
 41004

**Right Answer :**

Optimal substructure

**Right Option Id : 41001**

**Question 17**

The Floyd-Warshall algorithm is a popular method for solving the All-Pair Shortest Paths problem. What is the time complexity of the Floyd-Warshall algorithm for a graph with "n" vertices?

Answer :

(A)  $O(n)$   
 (B)  $O(n \log n)$   
 (C)  $O(n^2)$   
 (D)  $O(n^3)$

**Question Id : 56**

Option Id  
 56001  
 56002  
 56003  
 56004

**Right Answer :** $O(n^3)$ **Right Option Id : 56004****Question 18**

What is the time complexity of the Divide and Conquer algorithm for finding the maximum and minimum elements in an array of size "n"?

Answer :

- (A)  $O(n)$
- (B)  $O(\log n)$
- (C)  $O(n \log n)$
- (D)  $O(n^2)$

**Question Id : 57**

Option Id

- 57001
- 57002
- 57003
- 57004

**Right Answer :** $O(n)$ **Right Option Id : 57001****Question 19**

In multistage graphs, what is the property of optimality?

Answer :

- (A) The shortest path between any two stages is the one with the fewest edges
- (B) The shortest path between any two stages is the one with the lowest total cost
- (C) The shortest path between any two stages is the one with the highest total cost
- (D) The shortest path between any two stages is the one with the most vertices

**Question Id : 58**

Option Id

- 58001
- 58002
- 58003
- 58004

**Right Answer :**

The shortest path between any two stages is the one with the lowest total cost

**Right Option Id : 58002****Question 20**

Which of the following is not a common example of an abstract data type?

Answer :

- (A) Stack
- (B) Integer
- (C) Queue
- (D) List

**Question Id : 67**

Option Id

- 67001
- 67002
- 67003
- 67004

**Right Answer :**

Integer

**Right Option Id : 67002****Question 21**

Which traversal technique is used to visit each node of a linked list exactly once?

Answer :

- (A) Preorder traversal
- (B) Inorder traversal
- (C) Postorder traversal
- (D) Linear traversal

**Question Id : 73**

Option Id

- 73001
- 73002
- 73003
- 73004

**Right Answer :**

Linear traversal

**Right Option Id : 73004**

**Question 22**

In pointer implementation of linked lists, which operation can be performed in constant time ( $O(1)$ ) when inserting or deleting nodes?

Answer :

- (A) Inserting at the beginning
- (B) Inserting at the end
- (C) Inserting at a specific position
- (D) Deleting a specific node

**Question Id : 72**

Option Id

- 72001
- 72002
- 72003
- 72004

**Right Answer :**

Inserting at the beginning

**Right Option Id : 72001**

**Question 23**

Which representation is best suited for matrices with a small number of non-zero elements in each row and column?

Answer :

- (A) Triplet representation
- (B) Compressed sparse row (CSR) format
- (C) Compressed sparse column (CSC) format
- (D) Array representation

**Question Id : 71**

Option Id

- 71001
- 71002
- 71003
- 71004

**Right Answer :**

Compressed sparse column (CSC) format

**Right Option Id : 71003**

**Question 24**

Which of the following representations is most suitable for efficient row-wise traversal of a sparse matrix?

Answer :

- (A) Triplet representation
- (B) Compressed sparse row (CSR) format
- (C) Compressed sparse column (CSC) format
- (D) Array representation

**Question Id : 70**

Option Id

- 70001
- 70002
- 70003
- 70004

**Right Answer :**

Compressed sparse row (CSR) format

**Right Option Id : 70002**

**Question 25**

In computer graphics, arrays can be used to store pixel values for images. Which type of array would be suitable for this purpose?

Answer :

- (A) 1-D array
- (B) 2-D array
- (C) 3-D array
- (D) 4-D array

**Question Id : 69**

Option Id

- 69001
- 69002
- 69003
- 69004

**Right Answer :**

2-D array

**Right Option Id : 69002**

**Question 26**

For a 2-D array represented in row-major order, the index formula to access the element at row "i" and column "j" using the base address "B" is:

Answer :

- (A) Index = B + (i \* n + j)
- (B) Index = B + (j \* n + i)

**Question Id : 68**

Option Id

- 68001

(C) Index = B + (i + j)

(D) Index = B + (i \* m + j)

68002  
 68003  
 68004

**Right Answer :**

Index = B + (i \* n + j)

**Right Option Id : 68001**

**Question 27**

The Banker's algorithm is an example of a deadlock:

Answer :

(A) Avoidance algorithm  
 (B) Detection algorithm  
 (C) Prevention algorithm  
 (D) Termination algorithm

**Question Id : 66**

Option Id  
 66001  
 66002  
 66003  
 66004

**Right Answer :**

Avoidance algorithm

**Right Option Id : 66001**

**Question 28**

The concept of monitors was introduced by:

Answer :

(A) Edsger Dijkstra  
 (B) Alan Turing  
 (C) Tim Berners-Lee  
 (D) Linus Torvalds

**Question Id : 59**

Option Id  
 59001  
 59002  
 59003  
 59004

**Right Answer :**

Edsger Dijkstra

**Right Option Id : 59001**

**Question 29**

Priority Scheduling involves assigning a priority value to each process. Which scheduling algorithm is closely related to this concept?

Answer :

(A) FCFS  
 (B) SJN  
 (C) Multilevel Queue Scheduling  
 (D) First-Come, First-Served (FCFS)

**Question Id : 65**

Option Id  
 65001  
 65002  
 65003  
 65004

**Right Answer :**

Multilevel Queue Scheduling

**Right Option Id : 65003**

**Question 30**

The resource matrix is a data structure used in deadlock detection algorithms to:

Answer :

(A) Represent resource allocation  
 (B) Represent the execution order of processes  
 (C) Represent the execution history of processes  
 (D) Represent the priority of processes

**Question Id : 64**

Option Id  
 64001  
 64002  
 64003  
 64004

**Right Answer :**

Represent resource allocation

**Right Option Id : 64001****Question 31**

The term "race condition" in parallel programming refers to:

Answer :

- (A) A competition between processes to terminate first
- (B) A competition between processes to access shared resources
- (C) A situation where a process is stuck in a loop
- (D) A situation where processes are running sequentially

**Question Id : 63**

Option Id

- 63001
- 63002
- 63003
- 63004

**Right Answer :**

A competition between processes to access shared resources

**Right Option Id : 63002****Question 32**

The need for a command interpreter arises because:

Answer :

- (A) Hardware cannot execute programs directly
- (B) All programming languages require an interpreter
- (C) Software cannot run on hardware
- (D) Users prefer typing commands over using GUIs

**Question Id : 62**

Option Id

- 62001
- 62002
- 62003
- 62004

**Right Answer :**

Hardware cannot execute programs directly

**Right Option Id : 62001****Question 33**

The term "multi-user" in an OS context refers to:

Answer :

- (A) An OS that can execute multiple programs simultaneously
- (B) An OS that supports multiple users working on the same machine
- (C) An OS that can only run on multiple computers
- (D) An OS with a graphical user interface

**Question Id : 61**

Option Id

- 61001
- 61002
- 61003
- 61004

**Right Answer :**

An OS that supports multiple users working on the same machine

**Right Option Id : 61002****Question 34**

\_\_\_\_\_ offers the ability to query the data and insert, alter, and delete tuples.

Answer :

- (A) Transaction Control Language (TCL)
- (B) Data Control Language (DCL)
- (C) Data Definition Language (DDL)
- (D) Data Manipulation Language (DML)

**Question Id : 60**

Option Id

- 60001
- 60002
- 60003
- 60004

**Right Answer :**

Data Manipulation Language (DML)

**Right Option Id : 60004****Question 35****Question Id : 40**

Which of the following is a database?

Answer :

- (A) MySQL
- (B) Informix
- (C) SQL Server
- (D) All of the above

- Option Id
- 40001
- 40002
- 40003
- 40004

**Right Answer :**

All of the above

**Right Option Id : 40004**

### Question 36

What do you mean by one to many relationships?

Answer :

- (A) Many teachers may have many classes
- (B) One class may have many teachers
- (C) One teacher can have many classes
- (D) Many classes may have many teachers

- Option Id
- 39001
- 39002
- 39003
- 39004

**Right Answer :**

One teacher can have many classes

**Right Option Id : 39003**

### Question 37

In general, a file is basically a collection of all related\_\_\_\_\_.

Answer :

- (A) Rows & Columns
- (B) Database
- (C) Fields
- (D) Records

- Option Id
- 38001
- 38002
- 38003
- 38004

**Right Answer :**

Records

**Right Option Id : 38004**

### Question 38

Which of the following refers to the number of attributes in a relation?

Answer :

- (A) Row
- (B) Degree
- (C) Column
- (D) All of the above

- Option Id
- 37001
- 37002
- 37003
- 37004

**Right Answer :**

Row

**Right Option Id : 37001**

### Question 39

A report generator is used to

Answer :

- (A) Update file
- (B) Print file on paper

- Option Id
- 17001
- 17002

**Question Id : 17**

(C) Both of the above  
 (D) None of the above

17003  
 17004

**Right Answer :**  
 Print file on paper

**Right Option Id : 17002**

**Question 40**

A large computer information system maintains many different computer files. Which amongst them is called a perpetual file?

Answer :  
 (A) Specialized File  
 (B) Master File  
 (C) Log File  
 (D) Update File

**Question Id : 16**

Option Id  
 16001  
 16002  
 16003  
 16004

**Right Answer :**  
 Master File

**Right Option Id : 16002**

**Question 41**

Subnetting allows for:

Answer :  
 (A) Faster data transmission  
 (B) Improved error control  
 (C) Efficient use of IP addresses  
 (D) Increased network security

**Question Id : 15**

Option Id  
 15001  
 15002  
 15003  
 15004

**Right Answer :**  
 Efficient use of IP addresses

**Right Option Id : 15003**

**Question 42**

Upward multiplexing involves:

Answer :  
 (A) Combining multiple data streams into one  
 (B) Distributing data to different physical channels  
 (C) Separating data into smaller units  
 (D) Reordering data packets

**Question Id : 14**

Option Id  
 14001  
 14002  
 14003  
 14004

**Right Answer :**  
 Combining multiple data streams into one

**Right Option Id : 14001**

**Question 43**

Process-to-process communication involves communication between:

Answer :  
 (A) Different network layers  
 (B) Different devices on the same network  
 (C) Devices using different protocols  
 (D) Processes on different devices

**Question Id : 13**

Option Id  
 13001  
 13002  
 13003  
 13004

**Right Answer :**

Processes on different devices

**Right Option Id : 13004****Question 44**

The HTTP protocol is used for:

Answer :

- (A) Email communication
- (B) File transfers
- (C) Web browsing
- (D) Remote terminal access

**Question Id : 12**

Option Id

- 12001
- 12002
- 12003
- 12004

**Right Answer :**

Web browsing

**Right Option Id : 12003****Question 45**

The term HTTP stand for:

Answer :

- (A) Hyper Terminal Tracing Program
- (B) Hypertext Tracing Program
- (C) Hypertext Transfer Protocol
- (D) Hypertext Tracing Protocol

**Question Id : 11**

Option Id

- 11001
- 11002
- 11003
- 11004

**Right Answer :**

Hypertext Transfer Protocol

**Right Option Id : 11003****Question 46**

The length of an IPv6 address is:

Answer :

- (A) 32 bits
- (B) 64 bits
- (C) 128 bits
- (D) 256 bits

**Question Id : 10**

Option Id

- 10001
- 10002
- 10003
- 10004

**Right Answer :**

128 bits

**Right Option Id : 10003****Question 47**

The maximum length (in bytes) of an IPv4 datagram is:

Answer :

- (A) 32
- (B) 256
- (C) 1024
- (D) 65535

**Question Id : 9**

Option Id

- 9001
- 9002
- 9003
- 9004

**Right Answer :**

65535

**Right Option Id : 9004****Question 48**

Which software life cycle model is based on iterative prototyping?

**Question Id : 8**

Answer :

- (A) Waterfall model
- (B) Spiral model
- (C) Agile model
- (D) Prototype model

Option Id

- 8001
- 8002
- 8003
- 8004

**Right Answer :**

Spiral model

**Right Option Id : 8002**

#### Question 49

In the context of software project management, what is LOC an acronym for?

Answer :

- (A) Line of Change
- (B) Level of Complexity
- (C) Lines of Code
- (D) List of Components

Option Id

- 7001
- 7002
- 7003
- 7004

**Right Answer :**

Lines of Code

**Right Option Id : 7003**

#### Question 50

The Cost Estimation technique that involves expert judgments and consensus is called:

Answer :

- (A) COCOMO
- (B) Delphi Method
- (C) Waterfall Model
- (D) Prototype Model

Option Id

- 6001
- 6002
- 6003
- 6004

**Right Answer :**

Delphi Method

**Right Option Id : 6002**

#### Question 51

ISO 9000 and SEI CMM are both frameworks related to:

Answer :

- (A) Software testing
- (B) Software documentation
- (C) Software quality assurance and process improvement
- (D) Software design principles

Option Id

- 5001
- 5002
- 5003
- 5004

**Right Answer :**

Software quality assurance and process improvement

**Right Option Id : 5003**

#### Question 52

Which type of maintenance involves adding new features to existing software?

Answer :

- (A) Corrective Maintenance
- (B) Perfective Maintenance

Option Id

- 4001
- 4002

**Question Id : 4**

(C) Adaptive Maintenance

4003

(D) Preventive Maintenance

4004

**Right Answer :**

Perfective Maintenance

**Right Option Id : 4002**

### Question 53

The framework that provides guidelines for achieving consistent and high-quality software is:

Answer :

(A) COCOMO

**Question Id : 3**

Option Id

3001

(B) ISO 9000

3002

(C) Delphi Method

3003

(D) Agile Manifesto

3004

**Right Answer :**

ISO 9000

**Right Option Id : 3002**

### Question 54

Which maintenance process involves documenting the software's structure and functionality?

Answer :

(A) Reverse Engineering

**Question Id : 18**

Option Id

18001

(B) Preventive Maintenance

18002

(C) Perfective Maintenance

18003

(D) Adaptive Maintenance

18004

**Right Answer :**

Reverse Engineering

**Right Option Id : 18001**

### Question 55

What is the term for defining multiple methods in a class with the same name but different parameters?

Answer :

(A) Overriding

**Question Id : 2**

Option Id

2001

(B) Overloading

2002

(C) Inheriting

2003

(D) Inheritance

2004

**Right Answer :**

Overloading

**Right Option Id : 2002**

### Question 56

What is the main advantage of using abstract classes over interfaces?

Answer :

(A) Abstract classes can have multiple inheritance, unlike interfaces

**Question Id : 19**

Option Id

19001

(B) Interfaces can have constructors, while abstract classes cannot

19002

(C) Abstract classes can provide default implementations of methods

19003

(D) Interfaces allow for private access modifiers, unlike abstract classes

19004

**Right Answer :**

Abstract classes can provide default implementations of methods

**Right Option Id : 19003**

**Question 57**

What is the main purpose of using namespaces in programming?

Answer :

- (A) To provide data encapsulation
- (B) To organize code into logical groups
- (C) To define abstract classes
- (D) To handle exceptions

**Right Answer :**

To organize code into logical groups

**Question Id : 21**

Option Id

- 21001
- 21002
- 21003
- 21004

**Right Option Id : 21002**

**Question 58**

What is the term for creating a new class that inherits properties and behaviors from an existing class?

Answer :

- (A) Polymorphism
- (B) Encapsulation
- (C) Abstraction
- (D) Derivation

**Right Answer :**

Derivation

**Question Id : 36**

Option Id

- 36001
- 36002
- 36003
- 36004

**Right Option Id : 36004**

**Question 59**

What is the primary purpose of an interface in OOP?

Answer :

- (A) To provide a blueprint for creating objects
- (B) To define a set of methods that must be implemented by implementing classes
- (C) To define constructors for classes
- (D) To create static methods

**Right Answer :**

To define a set of methods that must be implemented by implementing classes

**Question Id : 35**

Option Id

- 35001
- 35002
- 35003
- 35004

**Right Option Id : 35002**

**Question 60**

What is the term for a variable that references an instance of a class?

Answer :

- (A) Property
- (B) Method
- (C) Object
- (D) Constructor

**Right Answer :**

Object

**Question Id : 34**

Option Id

- 34001
- 34002
- 34003
- 34004

**Right Option Id : 34003**

**Question 61****Question Id : 33**

What is the term for a condition that occurs during program execution that disrupts the normal flow of instructions?

Answer :

- (A) Abstraction
- (B) Inheritance
- (C) Exception
- (D) Encapsulation

Option Id

- 33001
- 33002
- 33003
- 33004

**Right Answer :**

Exception

**Right Option Id : 33003**

#### Question 62

What is the role of a Document Type Definition (DTD) in XML?

Answer :

- (A) It defines the structure and data types of XML documents.
- (B) It provides a list of external resources for an XML document.
- (C) It specifies the styling rules for XML elements.
- (D) It encrypts the content of an XML document

**Question Id : 32**

- 32001
- 32002
- 32003
- 32004

**Right Answer :**

It defines the structure and data types of XML documents.

**Right Option Id : 32001**

#### Question 63

What does PHP stand for?

Answer :

- (A) Personal Home Page
- (B) Professional Hypertext Processor
- (C) Preprocessed Hypertext Pages
- (D) PHP: Hypertext Preprocessor

**Question Id : 31**

- 31001
- 31002
- 31003
- 31004

**Right Answer :**

PHP: Hypertext Preprocessor

**Right Option Id : 31004**

#### Question 64

How do you comment a single line in PHP?

Answer :

- (A) // This is a comment @
- (B) /\* This is a comment \*/
- (C) <!-- This is a comment -->
- (D) \*\* This is a comment \*\*

**Question Id : 30**

- 30001
- 30002
- 30003
- 30004

**Right Answer :**

// This is a comment @

**Right Option Id : 30001**

#### Question 65

Which statement is used to retrieve data from a database in SQL?

Answer :

- (A) SELECT
- (B) UPDATE

**Question Id : 29**

- 29001
- 29002

(C) DELETE

29003

(D) INSERT

29004

**Right Answer :**

SELECT

**Right Option Id : 29001**

#### Question 66

What is CRUD an acronym for in database operations?

Answer :

- (A) Create, Read, Update, Delete
- (B) Cache, Read, Update, Delete
- (C) Copy, Replace, Update, Delete
- (D) Collect, Read, Use, Discard

**Question Id : 28**

Option Id

28001

28002

28003

28004

**Right Answer :**

Create, Read, Update, Delete

**Right Option Id : 28001**

#### Question 67

Which SQL command is used to remove a table from a database?

Answer :

- (A) DELETE TABLE
- (B) DROP TABLE
- (C) REMOVE TABLE
- (D) ERASE TABLE

**Question Id : 27**

Option Id

27001

27002

27003

27004

**Right Answer :**

DROP TABLE

**Right Option Id : 27002**

#### Question 68

The language accepted by Push down Automaton:

Answer :

- (A) Recursive Language
- (B) Context free language
- (C) Linearly Bounded language
- (D) All of the mentioned

**Question Id : 26**

Option Id

26001

26002

26003

26004

**Right Answer :**

Context free language

**Right Option Id : 26002**

#### Question 69

Which of the following is type 1 language or Type 1 grammar?

Answer :

- (A) Regular grammar/ Regular language
- (B) Context Free Grammar / Context Free language
- (C) Context Sensitive Grammar / Context Sensitive language
- (D) Recursively Enumerable

**Question Id : 25**

Option Id

25001

25002

25003

25004

**Right Answer :**

Context Sensitive Grammar / Context Sensitive language

**Right Option Id : 25003****Question 70**

A context free grammar G is in Chomsky normal form if every production is of the form

Answer :

- (A)  $A \rightarrow BC$  or  $A \rightarrow A$
- (B)  $A \rightarrow BC$  or  $A \rightarrow a$
- (C)  $A \rightarrow BCa$  or  $B \rightarrow b$
- (D) None of these

**Question Id : 24**

Option Id

- 24001
- 24002
- 24003
- 24004

**Right Answer :** $A \rightarrow BC$  or  $A \rightarrow a$ **Right Option Id : 24002****Question 71**The context free grammar  $S \rightarrow SS \mid 0S1 \mid 1S0 \mid \epsilon$  generates

Answer :

- (A) Equal number of 0's and 1's
- (B) Unequal number of 0's and 1's
- (C) Any number of 0's followed by any number of 1's
- (D) None of these

**Question Id : 23**

Option Id

- 23001
- 23002
- 23003
- 23004

**Right Answer :**

Equal number of 0's and 1's

**Right Option Id : 23001****Question 72**

According to Chomsky hierarchy, which of the following is recognized by Recursively Enumerable language?

Answer :

- (A) Type 0
- (B) Type 1
- (C) Type 2
- (D) Type 3

**Question Id : 22**

Option Id

- 22001
- 22002
- 22003
- 22004

**Right Answer :**

Type 0

**Right Option Id : 22001****Question 73**

A universal Turing machine is a

Answer :

- (A) Single tape Turing machine
- (B) Two-tape Turing machine
- (C) Reprogrammable Truing machine
- (D) All of the above

**Question Id : 74**

Option Id

- 74001
- 74002
- 74003
- 74004

**Right Answer :**

Reprogrammable Truing machine

**Right Option Id : 74003****Question 74**

Turing machine can be represented using:

**Question Id : 20**

Answer :

(A) Transition table  
 (B) Transition diagram  
 (C) Instantaneous description  
 (D) All of these

 Option Id  
 20001  
 20002  
 20003  
 20004
**Right Answer :**

All of these

**Right Option Id : 20004****Question 75**

Maximum read range of RFID module is?

Answer :

(A) 10 CM  
 (B) 5 CM  
 (C) 15 CM  
 (D) 2 CM

 Option Id  
 75001  
 75002  
 75003  
 75004
**Right Answer :**

5 CM

**Right Option Id : 75002****Question 76**

Which ZigBee device is used to transfer data between ZigBee devices?

Answer :

(A) Zigbee Coordinator device  
 (B) Zigbee Router  
 (C) Zigbee start device  
 (D) Zigbee end device

 Option Id  
 78001  
 78002  
 78003  
 78004
**Right Answer :**

Zigbee Router

**Right Option Id : 78002****Question 77**

The Internet of Things (IoT), access to real-time data, and the introduction of cyber-physical systems mark the big changes for this era.

Answer :

(A) Industrial Revolution  
 (B) 3rd Industrial Revolution  
 (C) Industry 4.0  
 (D) Manufacturing automation

 Option Id  
 92001  
 92002  
 92003  
 92004
**Right Answer :**

Industry 4.0

**Right Option Id : 92003****Question 78**

The default baud rate of Modbus RTU is?

Answer :

(A) 9600  
 (B) 19200  
 (C) 38400

 Option Id  
 93001  
 93002  
 93003

(D) 57600

 93004
**Right Answer :**

19200

**Right Option Id : 93002****Question 79**

\_\_\_\_\_ is an online storage drive which can be browsed and from which items can be shared?

Answer :

- (A) Find my iPhone
- (B) iWeb Publish
- (C) MobileMe Gallery
- (D) iDesk

**Question Id : 94**

Option Id

 94001

 94002

 94003

 94004
**Right Answer :**

iDesk

**Right Option Id : 94004****Question 80**

\_\_\_\_\_ are used to overcome the challenges of managing the resources of the IoT.

Answer :

- (A) Clustering
- (B) Software agents
- (C) Synchronization techniques
- (D) Cluster, Software agent, and Synchronization techniques

**Question Id : 97**

Option Id

 97001

 97002

 97003

 97004
**Right Answer :**

Cluster, Software agent, and Synchronization techniques

**Right Option Id : 97004****Question 81**

What is the frame?

Answer :

- (A) Data type
- (B) Data Structure
- (C) A way of representing knowledge
- (D) None of the above

**Question Id : 96**

Option Id

 96001

 96002

 96003

 96004
**Right Answer :**

A way of representing knowledge

**Right Option Id : 96003****Question 82**

What is hyponymy relation?

Answer :

- (A) A is part of B
- (B) B has A as a part of itself
- (C) A is subordinate of B
- (D) A is superordinate of B

**Question Id : 91**

Option Id

 91001

 91002

 91003

 91004
**Right Answer :**

A is subordinate of B

**Right Option Id : 91003**

**Question 83**

Which among the following is/are the best example of semantic networks?

Answer :

- (A) Wordnet
- (B) Human Food Chain
- (C) MYSIN
- (D) Autonomous car driver

**Right Answer :**

Wordnet

**Question Id : 98**

- Option Id  
 98001
- 98002
- 98003
- 98004

**Right Option Id : 98001**

**Question 84**

The "Turing Machine" showed that you could use a/an \_\_\_\_ system to program any algorithmic task.

Answer :

- (A) binary
- (B) electro-chemical
- (C) recursive
- (D) semantic

**Right Answer :**

binary

**Question Id : 99**

- Option Id  
 99001
- 99002
- 99003
- 99004

**Right Option Id : 99001**

**Question 85**

Which of the following is not a Characteristics of Expert Systems?

Answer :

- (A) Understandable
- (B) Highly responsive
- (C) Unreliable
- (D) High performance

**Right Answer :**

Unreliable

**Question Id : 100**

- Option Id  
 100001
- 100002
- 100003
- 100004

**Right Option Id : 100003**

**Question 86**

which of the following is Capabilities of Expert Systems?

Answer :

- (A) Possessing human capabilities
- (B) Suggesting alternative options to a problem
- (C) Refining their own knowledge
- (D) Substituting human decision makers

**Right Answer :**

Suggesting alternative options to a problem

**Question Id : 95**

- Option Id  
 95001
- 95002
- 95003
- 95004

**Right Option Id : 95002**

**Question 87**

What is the full form of JESS in Expert System Technology?

Answer :

**Question Id : 90**

- Option Id

(A) Java Expert System Shell  
 (B) Javascript Expert System Shell  
 (C) Java Expert Sub System  
 (D) Javascript Expert Sub System

 90001  
 90002  
 90003  
 90004
**Right Answer :**

Java Expert System Shell

**Right Option Id : 90001****Question 88**

During E-commerce transaction we should ensure-----

Answer :

(A) Integrity  
 (B) Confidentiality  
 (C) Security  
 (D) All of the above

**Question Id : 77**
 Option Id  
 77001  
 77002  
 77003  
 77004
**Right Answer :**

All of the above

**Right Option Id : 77004****Question 89**

Public key cryptography is also known as -----cryptography.

Answer :

(A) Private key  
 (B) Symetric  
 (C) Asymmetric  
 (D) None of the above

**Question Id : 88**
 Option Id  
 88001  
 88002  
 88003  
 88004
**Right Answer :**

Asymmetric

**Right Option Id : 88003****Question 90**

Which one is not a physical threat

Answer :

(A) Hacking  
 (B) Storm  
 (C) Fire  
 (D) Flood

**Question Id : 87**
 Option Id  
 87001  
 87002  
 87003  
 87004
**Right Answer :**

Hacking

**Right Option Id : 87001****Question 91**

Which one is a communication channel security protocol?

Answer :

(A) SSL  
 (B) SET  
 (C) S-HTTP

**Question Id : 89**
 Option Id  
 89001  
 89002  
 89003

(D) All of the above

89004

**Right Answer :**

All of the above

**Right Option Id : 89004**

**Question 92**

Which one is used to identify mobile money

Answer :

- (A) MCID
- (B) MMID
- (C) RSID
- (D) None of the above

**Question Id : 86**

Option Id

- 86001
- 86002
- 86003
- 86004

**Right Answer :**

MMID

**Right Option Id : 86002**

**Question 93**

Unclassified email is called?

Answer :

- (A) Extra mail
- (B) Spam
- (C) junk mail
- (D) None of the above

**Question Id : 85**

Option Id

- 85001
- 85002
- 85003
- 85004

**Right Answer :**

junk mail

**Right Option Id : 85003**

**Question 94**

\_\_\_\_\_ refers to simulated motion pictures showing movement of drawn objects.

Answer :

- (A) Motion
- (B) Animation
- (C) VR
- (D) SMD

**Question Id : 84**

Option Id

- 84001
- 84002
- 84003
- 84004

**Right Answer :**

Animation

**Right Option Id : 84002**

**Question 95**

Which of the following is an example of Digital Image Processing?

Answer :

- (A) Computer Graphics
- (B) Pixels
- (C) Camera Mechanism
- (D) All of the mentioned

**Question Id : 76**

Option Id

- 76001
- 76002
- 76003
- 76004

**Right Answer :**

All of the mentioned

**Right Option Id : 76004**

**Question 96**

The aliasing effect on an image can be reduced using which of the following methods?

Answer :

- (A) By reducing the high-frequency components of image by clarifying the image
- (B) By increasing the high-frequency components of image by clarifying the image
- (C) By increasing the high-frequency components of image by blurring the image
- (D) By reducing the high-frequency components of image by blurring the image

**Right Answer :**

By reducing the high-frequency components of image by blurring the image

**Question Id : 83**

Option Id

- 83001
- 83002
- 83003
- 83004

**Right Option Id : 83004****Question 97**

Which of the following is the next step in image processing after compression?

Answer :

- (A) Representation and description
- (B) Morphological processing
- (C) Segmentation
- (D) Wavelets

**Right Answer :**

Morphological processing

**Question Id : 82**

Option Id

- 82001
- 82002
- 82003
- 82004

**Right Option Id : 82002****Question 98**

Which of the following is the abbreviation of JPEG?

Answer :

- (A) Joint Photographic Experts Group
- (B) Joint Photographs Expansion Group
- (C) Joint Photographic Expanded Group
- (D) Joint Photographic Expansion Group

**Right Answer :**

Joint Photographic Experts Group

**Question Id : 81**

Option Id

- 81001
- 81002
- 81003
- 81004

**Right Option Id : 81001****Question 99**

Which gray-level transformation increases the dynamic range of gray-level in the image?

Answer :

- (A) Negative transformations
- (B) Contrast stretching
- (C) Power-law transformations
- (D) None of the mentioned

**Right Answer :**

Contrast stretching

**Question Id : 80**

Option Id

- 80001
- 80002
- 80003
- 80004

**Right Option Id : 80002****Question 100**

Multimedia is widely used to add special\_\_\_\_ to movies

Answer :

**Question Id : 79**

Option Id

(A) Arrangement  
 (B) Attachment  
 (C) Effects  
 (D) Control

79001  
 79002  
 79003  
 79004

**Right Answer :**

Effects

**Right Option Id : 79003**

### Art Of Teaching

#### Question 101

The main aim of classroom teaching is

Answer :

(A) to give information  
 (B) help to pass examination  
 (C) syllabus coverage  
 (D) to develop personality

**Question Id : 120**  
 Option Id  
 120001  
 120002  
 120003  
 120004

**Right Answer :**

to develop personality

**Right Option Id : 120004**

#### Question 102

One of the following is law of learning

Answer :

(A) law of motivation  
 (B) law of listening  
 (C) law of exercise  
 (D) law of communication

**Question Id : 121**  
 Option Id  
 121001  
 121002  
 121003  
 121004

**Right Answer :**

law of exercise

**Right Option Id : 121003**

#### Question 103

One of them is a method of teaching

Answer :

(A) drilling  
 (B) illustration  
 (C) demonstration  
 (D) lecture and demonstration

**Question Id : 125**  
 Option Id  
 125001  
 125002  
 125003  
 125004

**Right Answer :**

lecture and demonstration

**Right Option Id : 125004**

#### Question 104

To make learner an active partner in learning

Answer :

(A) provide objectives  
 (B) provide content

**Question Id : 123**  
 Option Id  
 123001  
 123002

(C) provide writes  
(D) provide lecture

123003  
 123004

**Right Answer :**  
provide objectives

**Right Option Id : 123001**

**Question 105**

psychomotor domain relates to

Answer :

(A) map making  
(B) project making  
(C) playing  
(D) all the above

**Question Id : 124**

Option Id  
 124001  
 124002  
 124003  
 124004

**Right Answer :**  
all the above

**Right Option Id : 124004**

**Question 106**

Heuristic means

Answer :

(A) to invertigate  
(B) to show  
(C) to do  
(D) to act

**Question Id : 119**

Option Id  
 119001  
 119002  
 119003  
 119004

**Right Answer :**  
to invertigate

**Right Option Id : 119001**

**Question 107**

general to specific approach is

Answer :

(A) deductive  
(B) game based  
(C) blended  
(D) experimental

**Question Id : 117**

Option Id  
 117001  
 117002  
 117003  
 117004

**Right Answer :**  
deductive

**Right Option Id : 117001**

**Question 108**

Inductive method is

Answer :

(A) drilling  
(B) exercising  
(C) moving from specific to general  
(D) moving from general to specific

**Question Id : 126**

Option Id  
 126001  
 126002  
 126003  
 126004

**Right Answer :**

moving from specific to general

**Right Option Id : 126003****Question 109**

Diadactic teaching materials was introduced by

Answer :

- (A) Pestalozzi
- (B) froebel
- (C) Montessori
- (D) Dewey

**Question Id : 127**

- 127001
- 127002
- 127003
- 127004

**Right Answer :**

Montessori

**Right Option Id : 127003****Question 110**

The centre point of a lesson plan is

Answer :

- (A) principal
- (B) teacher
- (C) student
- (D) none of the above

**Question Id : 128**

- 128001
- 128002
- 128003
- 128004

**Right Answer :**

student

**Right Option Id : 128003****Question 111**

Which of the following is an effective method to enhance problem-solving skills in children?

Answer :

- (A) giving them opportunities to brainstorm and make intuitive guesses
- (B) discouraging independent thinking and focusing on declarative knowledge
- (C) encouraging them to avoid difficult problems
- (D) providing them with ready-made solutions to problems

**Question Id : 129**

- 129001
- 129002
- 129003
- 129004

**Right Answer :**

giving them opportunities to brainstorm and make intuitive guesses

**Right Option Id : 129001****Question 112**

Experiential learning stresses on:

Answer :

- (A) learning as a product rather than a process.
- (B) control of teacher on the learning of children.
- (C) the role of reinforcement in learning.
- (D) importance of critical reflection.

**Question Id : 108**

- 108001
- 108002
- 108003
- 108004

**Right Answer :**

importance of critical reflection.

**Right Option Id : 108004****Question 113**

Read the following statement and choose the correct option:

**Question Id : 130**

Assertion (A) : Teachers should create a meaningful environment which seeks active participation and engagement of all children.

Reason ( R ) : All children are intrinsically motivated to learn and are capable of learning.

Answer :

- (A) (A) is true, but ( R ) is false.
- (B) both (A) and ( R ) are false.
- (C) both (A) and ( R ) are true and ( R ) is the correct explanation of (A)
- (D) both (A) and ( R ) are true, but ( R ) is not the correct explanation of (A)

Option Id

- 130001
- 130002
- 130003
- 130004

**Right Answer :**

both (A) and ( R ) are true, but ( R ) is not the correct explanation of (A)

**Right Option Id : 130004**

#### Question 114

Which of the following is not a characteristic of a good achievement test ?

Answer :

- (A) Validity
- (B) Ambiguity
- (C) Reliability
- (D) Objectivity

Question Id : 122

- 122001
- 122002
- 122003
- 122004

**Right Answer :**

Ambiguity

**Right Option Id : 122002**

#### Question 115

"Spare the rod and spoil the child", gives the message that

Answer :

- (A) children should be beaten with rods.
- (B) Corporal punishment is not acceptable.
- (C) undesirable behaviour must be punished.
- (D) Punishment in the class should be banned.

Question Id : 118

- 118001
- 118002
- 118003
- 118004

**Right Answer :**

undesirable behaviour must be punished.

**Right Option Id : 118003**

#### Question 116

What is the use of text book in class?

Answer :

- (A) To explain ideas & thought
- (B) To achieve learning objectives
- (C) To delimit what is to be taught
- (D) None of these

Question Id : 115

- 115001
- 115002
- 115003
- 115004

**Right Answer :**

To achieve learning objectives

**Right Option Id : 115002**

#### Question 117

Which of the following statement is not true?

Answer :

- (A) Through the text book, the memory power of the student is developed
- (B) Through the text book, reasoning power of the student is developed

Question Id : 116

- 116001
- 116002

(C) Textbooks distract students from studies.  
 (D) None of these

116003  
 116004

**Right Answer :**

Textbooks distract students from studies.

**Right Option Id : 116003**

**Question 118**

The criteria for teacher effectiveness are-

Answer :  
 (A) Ability  
 (B) Product  
 (C) Process  
 (D) All of the above

**Question Id : 101**

Option Id  
 101001  
 101002  
 101003  
 101004

**Right Answer :**

All of the above

**Right Option Id : 101004**

**Question 119**

The primary responsibility for the teacher's adjustment

Answer :  
 (A) with the children  
 (B) with the principal  
 (C) the teacher himself  
 (D) None of these

**Question Id : 102**

Option Id  
 102001  
 102002  
 102003  
 102004

**Right Answer :**

the teacher himself

**Right Option Id : 102003**

**Question 120**

Characteristics of teacher centre method are-

Answer :  
 (A) Formality  
 (B) Teacher's sovereignty  
 (C) Ignoring new technology  
 (D) All of the above

**Question Id : 104**

Option Id  
 104001  
 104002  
 104003  
 104004

**Right Answer :**

All of the above

**Right Option Id : 104004**

**Question 121**

A good evaluation does not have-

Answer :  
 (A) Validity  
 (B) Reliability  
 (C) Objectivity  
 (D) Subjectivity

**Question Id : 105**

Option Id  
 105001  
 105002  
 105003  
 105004

**Right Answer :**

Subjectivity

**Right Option Id : 105004****Question 122**

The Matriculation examination conducted by Bihar School Examination Board is of \_\_\_\_\_ type.

Answer :

- (A) External examination
- (B) Criterion referenced Evaluation
- (C) summative evaluation
- (D) All of the above

**Question Id : 106**

Option Id

- 106001
- 106002
- 106003
- 106004

**Right Answer :**

All of the above

**Right Option Id : 106004****Question 123**

What type of evaluation is grading system?

Answer :

- (A) Absolute evaluation
- (B) Relative evaluation
- (C) Both of the above
- (D) None of the above

**Question Id : 107**

Option Id

- 107001
- 107002
- 107003
- 107004

**Right Answer :**

Both of the above

**Right Option Id : 107003****Question 124**

The outline of the content is-

Answer :

- (A) Curriculum
- (B) Syllabus
- (C) Lesson
- (D) Unit

**Question Id : 103**

Option Id

- 103001
- 103002
- 103003
- 103004

**Right Answer :**

Syllabus

**Right Option Id : 103002****Question 125**

Transmission of values, norms and beliefs conveyed in the classroom atmosphere is-

Answer :

- (A) Core curriculum
- (B) Hidden curriculum
- (C) Content Curriculum
- (D) None of the above

**Question Id : 109**

Option Id

- 109001
- 109002
- 109003
- 109004

**Right Answer :**

Hidden curriculum

**Right Option Id : 109002****Question 126****Question Id : 110**

The psychological factor influencing Learning is -

Answer :

- (A) The salary of a teacher
- (B) The nature of subject
- (C) Caste of students
- (D) The interest of students

Option Id

- 110001
- 110002
- 110003
- 110004

**Right Answer :**

The interest of students

**Right Option Id : 110004**

#### Question 127

Teaching Learning process is from

Answer :

- (A) simple to complex
- (B) concrete to Abstract
- (C) Known to unknown
- (D) All the above

Question Id : 111

Option Id

- 111001
- 111002
- 111003
- 111004

**Right Answer :**

All the above

**Right Option Id : 111004**

#### Question 128

Which of these is not a factor affecting teaching-learning

Answer :

- (A) Maturity
- (B) Readiness
- (C) level of aspiration
- (D) Geographical boundary

Question Id : 112

Option Id

- 112001
- 112002
- 112003
- 112004

**Right Answer :**

Geographical boundary

**Right Option Id : 112004**

#### Question 129

Mnemonics is-

Answer :

- (A) Theoretical Teaching aid
- (B) Visual teaching aid
- (C) Memory teaching aid
- (D) All of the above

Question Id : 113

Option Id

- 113001
- 113002
- 113003
- 113004

**Right Answer :**

Memory teaching aid

**Right Option Id : 113003**

#### Question 130

Benefits of hands-on-learning are

Answer :

- (A) To learn new skills
- (B) Encourages interaction with nature

Question Id : 114

Option Id

- 114001
- 114002

(C) Both of the above  
 (D) None of the above

114003  
 114004

**Right Answer :**  
 Both of the above

**Right Option Id : 114003**

#### Other Skills

**Question 131**

Who were associated with the Indian league established in 1875 in Calcutta (now Kolkata) ?

Answer :

(A) Sisir Kumar Ghosh and Arvindo Ghosh  
 (B) Kali Mohan Das and Arvindo Ghosh  
 (C) Sisir Kumar Ghosh and Sambhu Charan Mukherjee  
 (D) None of these

**Question Id : 149**

Option Id  
 149001  
 149002  
 149003  
 149004

**Right Answer :**  
 Sisir Kumar Ghosh and Sambhu Charan Mukherjee

**Right Option Id : 149003**

**Question 132**

Which is the only state in India producing muga silk ?

Answer :

(A) Assam  
 (B) Bihar  
 (C) Orissa  
 (D) West Bengal

**Question Id : 148**

Option Id  
 148001  
 148002  
 148003  
 148004

**Right Answer :**  
 Assam

**Right Option Id : 148001**

**Question 133**

Which among the following is the effect of currency devaluation?

Answer :

(A) Increase in imports  
 (B) decrease in inflation  
 (C) increase in exports  
 (D) None of the above

**Question Id : 147**

Option Id  
 147001  
 147002  
 147003  
 147004

**Right Answer :**  
 increase in exports

**Right Option Id : 147003**

**Question 134**

I It was the first India's Civil Disobedience movement launched by Mahatma Gandhi.

II. It was a protest against the injustice meted out to tenant farmers in Champaran district of Bihar. Which of the above statement(s) is/are correct about Champaran Satyagraha?

Answer :

(A) Only I  
 (B) Only II  
 (C) Both I and II  
 (D) Neither I nor II

**Question Id : 146**

Option Id  
 146001  
 146002  
 146003

146004
**Right Answer :**

Both I and II

**Right Option Id : 146003****Question 135**

Which Union Ministry conducted the 'Mother Tongue Survey of India (MTSI)'?

Answer :

- (A) Ministry of Education
- (B) Ministry of Home Affairs
- (C) Ministry of Culture
- (D) Ministry of External Affairs

**Question Id : 145**

Option Id

- 145001
- 145002
- 145003
- 145004

**Right Answer :**

Ministry of Home Affairs

**Right Option Id : 145002****Question 136**

Which of the following gasses are called Greenhouse gasses?

Answer :

- (A) Methane
- (B) Nitrogen
- (C) Carbon dioxide
- (D) Both a and c

**Question Id : 144**

Option Id

- 144001
- 144002
- 144003
- 144004

**Right Answer :**

Both a and c

**Right Option Id : 144004****Question 137**

How many main components are there in integrated waste management?

Answer :

- (A) Two
- (B) Three
- (C) Seven
- (D) Eleven

**Question Id : 143**

Option Id

- 143001
- 143002
- 143003
- 143004

**Right Answer :**

Two

**Right Option Id : 143001****Question 138**

Which type of farming causes more deforestation?

Answer :

- (A) Subsistence farming
- (B) Commercial farming
- (C) Mixed farming
- (D) Dairy farming

**Question Id : 142**

Option Id

- 142001
- 142002
- 142003
- 142004

**Right Answer :**

Subsistence farming

**Right Option Id : 142001**

**Question 139**

The El-Nino Phenomenon occurs in

Answer :

- (A) Atlantic Ocean
- (B) Pacific Ocean
- (C) Indian Ocean
- (D) Arctic Ocean

**Right Answer :**

Pacific Ocean

**Question Id : 141**

Option Id

- 141001
- 141002
- 141003
- 141004

**Right Option Id : 141002**

**Question 140**

The Gangetic dolphin belongs to which of the following categories of fauna?

Answer :

- (A) Endangered species
- (B) Vulnerable species
- (C) Rare species
- (D) Extinct species

**Right Answer :**

Vulnerable species

**Question Id : 131**

Option Id

- 131001
- 131002
- 131003
- 131004

**Right Option Id : 131002**

**Question 141**

Of the 20 cycles sold by Ajay, average cost of 12 cycles is Rs. 18000. In total he earned Rs. 300000. What was the average cost of remaining cycles?

Answer :

- (A) Rs. 10500
- (B) Rs. 7500
- (C) Rs. 9125
- (D) Rs. 9750

**Right Answer :**

Rs. 10500

**Question Id : 139**

Option Id

- 139001
- 139002
- 139003
- 139004

**Right Option Id : 139001**

**Question 142**

Calculate the compound interest on Rs. 4000 for 2 years at 20% per annum when compounded annually.

Answer :

- (A) 1856.4
- (B) 1756.4
- (C) 1846.4
- (D) 1746.4

**Right Answer :**

1856.4

**Question Id : 138**

Option Id

- 138001
- 138002
- 138003
- 138004

**Right Option Id : 138001**

**Question 143**

$11.71 - 0.86 + 1.78 - 9.20 = ?$

Answer :

- (A) 2.43

**Question Id : 137**

Option Id

- 137001

(B) 2.45  
(C) 3.13  
(D) 3.43

137002  
 137003  
 137004

**Right Answer :**

3.43

**Right Option Id : 137004**

**Question 144**

The sum of two numbers is 156 and their HCF is 13. The numbers of such number pairs is

Answer :

(A) 2  
(B) 5  
(C) 4  
(D) 3

**Question Id : 136**

Option Id  
 136001  
 136002  
 136003  
 136004

**Right Answer :**

2

**Right Option Id : 136001**

**Question 145**

50 If the height of the building and distance from the building foot's to a point is increased by 20%, then the angle of elevation on the top of the building:

Answer :

(A) Increases  
(B) Decreases  
(C) Do not change  
(D) None of the above

**Question Id : 135**

Option Id  
 135001  
 135002  
 135003  
 135004

**Right Answer :**

Do not change

**Right Option Id : 135003**

**Question 146**

Umbrage : Offense :: Elation : ?

Answer :

(A) Decoration  
(B) Penance  
(C) Jubilance  
(D) Meaning

**Question Id : 134**

Option Id  
 134001  
 134002  
 134003  
 134004

**Right Answer :**

Jubilance

**Right Option Id : 134003**

**Question 147**

Choose the word which is least like the other words in the group

Answer :

(A) Fir  
(B) Tail  
(C) Trunk  
(D) Feather

**Question Id : 133**

Option Id  
 133001  
 133002  
 133003  
 133004

**Right Answer :**

Fir

**Right Option Id : 133001****Question 148**

7,11,13,17, 19, \_\_

Answer :

(A) 21

(B) 29

(C) 23

(D) 31

**Question Id : 132**

Option Id

 132001 132002 132003 132004**Right Answer :**

23

**Right Option Id : 132003****Question 149**

If SPIDER is written as PSDIRE in a certain code, how would COMMON be written in that code?

Answer :

(A) OCMMON

(B) OCMOMN

(C) OCMMNO

(D) OCOMMO

**Question Id : 140**

Option Id

 140001 140002 140003 140004**Right Answer :**

OCMMNO

**Right Option Id : 140003****Question 150**

Introducing a man, a woman said, "His wife is the only daughter of my father". How is that man related to the woman?

Answer :

(A) Brother

(B) Father-in-law

(C) Maternal Uncle

(D) Husband

**Question Id : 150**

Option Id

 150001 150002 150003 150004**Right Answer :**

Husband

**Right Option Id : 150004**